

## CLAIMS

- 1    1.    A glass block panel system comprising:  
2                a framework comprising:  
3                        an external framework comprising at least one external peripheral  
4                        frame member comprising a base web portion formed between  
5                        first and second opposing side arms, wherein at least one of the  
6                        side arms is removably coupled to the base web portion; and  
7                at least one glass block secured in the framework.
- 1    2.    The glass block panel system of claim 1, the external peripheral framework member  
2                further comprising a mounting fin reversibly coupled to the base web portion.
- 1    3.    The glass block panel system of claim 1, the at least one external peripheral framework  
2                member further comprising a securing track formed along an internal face of the base  
3                web portion.
- 1    4.    The glass block panel system of claim 1, the at least one external peripheral framework  
2                member further comprising flexible extrusions protruding from tips of the side arms, the  
3                extrusions forming tightly adjustable seals between the tips of the side arms and the  
4                glass block.

- 1 5. The glass block panel system of claim 1, the at least one glass block further comprising  
2 at least two glass blocks secured in the framework, and the framework further  
3 comprising an internal framework comprising at least one internal frame spacer abutting  
4 and separating the at least two glass blocks.
- 1 6. The glass block panel system of claim 5, the internal frame spacer comprising a spacer  
2 web portion formed between opposing facing strips.
- 1 7. The glass block panel system of claim 6, each facing strip further comprising cross  
2 arms, the cross arms having flexible extrusions protruding from tips of the cross arms  
3 forming tightly adjustable seals between the tips of the cross arms and the glass blocks.
- 1 8. The glass block panel system of claim 6, wherein at least one of the facing strips is  
2 removably coupled to the spacer web portion.
- 1 9. The glass block panel system of claim 1, wherein the first side arm is removably  
2 coupled to the base web portion and the second side arm is integrally joined to the base  
3 web portion.

- 1    10.    A glass block panel system comprising:  
2                    at least two glass blocks secured in a framework; and  
3                    the framework comprising:  
4                    an internal framework comprising at least one internal frame spacer  
5                    abutting and separating the at least two glass blocks, the at least  
6                    one internal frame spacer comprising a spacer web portion  
7                    formed between first and second opposing facing strips, each  
8                    facing strip comprising cross arms, the cross arms having  
9                    flexible extrusions protruding from tips of the cross arms  
10                  forming tightly adjustable seals between the tips of the cross  
11                  arms and the glass blocks.
- 1    11.    The glass block panel system of claim 10, wherein at least one of the facing strips is  
2                    removably coupled to the spacer web portion.
- 1    12.    The glass block panel system of claim 11, wherein the first facing strip is removably  
2                    coupled to the spacer web portion and the second facing strip is integrally joined to the  
3                    spacer web portion.
- 1    13.    The glass block panel system of claim 10 further comprising a securing track formed  
2                    along at least one opposing face of the spacer web portion.
- 1    14.    The glass block panel system of claim 13, the internal frame spacer further comprising a  
2                    securing tab formed at each opposing latitudinal end of the spacer web portion.

- 1 15. The glass block panel system of claim 10, the framework further comprising an external  
2 framework comprising at least one external peripheral frame member.
- 1 16. The glass block panel system of claim 15, the at least one external peripheral frame  
2 member comprising a base web portion formed between opposing side arms.
- 1 17. The glass block panel system of claim 16, the at least one external peripheral frame  
2 member comprising a mounting fin reversibly coupled to the base web portion.
- 1 18. The glass block panel system of claim 16, the at least one external peripheral frame  
2 member further comprising flexible extrusions protruding from tips of the side arms, the  
3 extrusions forming tightly adjustable seals between the tips of the side arms and the at  
4 least two glass blocks.
- 1 19. The glass block panel system of claim 16, wherein at least one of the side arms is  
2 removably coupled to the base web portion.
- 1 20. The glass block panel system of claim 16, the at least one external peripheral frame  
2 member further comprising a securing track formed along an internal face of the base  
3 web portion.

1 21. A method of fabricating a glass block panel system, the method comprising:  
2 assembling a framework so that at least a portion of at least one internal  
3 compartment is formed;  
4 applying an adhesive sealant to the formed portion of the at least one internal  
5 compartment;  
6 latitudinally inserting at least one glass block into the formed portion of the at  
7 least one internal compartment from a front of the glass block panel  
8 system; and  
9 completing the glass block panel system.

1 22. The method of claim 21, wherein assembling a framework comprises assembling a  
2 portion of an external framework so that a portion of an internal compartment is  
3 formed, wherein applying an adhesive sealant comprises applying an adhesive sealant to  
4 the formed portion of the internal compartment, wherein latitudinally inserting at least  
5 one glass block comprises latitudinally inserting a glass block into the formed portion of  
6 the internal compartment from a front of the glass block panel system, and wherein  
7 completing the glass block panel system comprises completing the internal compartment  
8 and removably coupling at least one side arm to the external framework, thereby  
9 securing the glass block in the internal compartment.

1 23. The method of claim 21, wherein assembling a framework comprises assembling an  
2 external framework so that an internal compartment is formed, wherein applying an  
3 adhesive sealant comprises applying an adhesive sealant to the internal compartment,  
4 wherein latitudinally inserting at least one glass block comprises latitudinally inserting a  
5 glass block into the internal compartment from a front of the glass block panel system,  
6 and wherein completing the glass block panel system comprises removably coupling  
7 four side arms to the external framework, thereby securing the glass block in the  
8 internal compartment.

1 24. The method of claim 21, wherein assembling a framework comprises assembling a  
2 portion of an external framework and an internal frame spacer so that portions of two  
3 internal compartments are formed, wherein applying an adhesive sealant comprises  
4 applying an adhesive sealant to the formed portions of the internal compartments,  
5 wherein latitudinally inserting at least one glass block comprises latitudinally inserting  
6 two glass blocks into the formed portions of the two internal compartments from a front  
7 of the glass block panel system, and wherein completing the glass block panel system  
8 comprises completing the internal compartments and removably coupling at least one  
9 side arm and at least one facing strip to the external framework and the internal frame  
10 spacer respectively, thereby securing the glass blocks in the internal compartments.

1 25. The method of claim 21, wherein assembling a framework comprises assembling an  
2 external framework and an internal frame spacer so that two internal compartments are  
3 formed, wherein applying an adhesive sealant comprises applying an adhesive sealant to  
4 the internal compartments, wherein latitudinally inserting at least one glass block  
5 comprises latitudinally inserting two glass blocks into the two internal compartments  
6 from a front of the glass block panel system, and wherein completing the glass block  
7 panel system comprises removably coupling four side arms and a facing strip to the  
8 external framework and the internal frame spacer respectively, thereby securing the  
9 glass blocks in the internal compartments.

1 26. The method of claim 21, wherein assembling a framework comprises assembling a  
2 portion of an external framework and a plurality of internal frame spacers so that  
3 portions of a plurality of internal compartments are formed, wherein applying an  
4 adhesive sealant comprises applying an adhesive sealant to the formed portions of the  
5 internal compartments, wherein latitudinally inserting at least one glass block comprises  
6 latitudinally inserting a plurality blocks into the formed portions of the plurality of internal  
7 compartments from a front of the glass block panel system, and wherein completing the  
8 glass block panel system comprises completing the internal compartments and  
9 removably coupling a plurality of side arms and a plurality of facing strips to the external  
10 framework and the internal frame spacers respectively, thereby securing the glass  
11 blocks in the internal compartments.

1 27. The method of claim 21, wherein assembling a framework comprises assembling an  
2 external framework and a plurality of internal frame spacers so that a plurality of internal  
3 compartments are formed, wherein applying an adhesive sealant comprises applying an  
4 adhesive sealant to the internal compartments, wherein latitudinally inserting at least one  
5 glass block comprises latitudinally inserting a plurality blocks into the plurality of internal  
6 compartments from a front of the glass block panel system, and wherein completing the  
7 glass block panel system comprises removably coupling a plurality of side arms and a  
8 plurality of facing strips to the external framework and the internal frame spacers  
9 respectively, thereby securing the glass blocks in the internal compartments.

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